

NIAD

Northern
/ liana ADAM
User's Group

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**MULTI - FUNCTION USER GROUP
MONTHLY NEWSLETTER - PUBLIC DOMAIN LIBRARY
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Continuing our study of Romans Chapter 11...

²⁵ Lest you be wise in your own conceits, I want you to understand this mystery, brethren: a hardening has come upon part of Israel, until the full number of the Gentiles come in, ²⁶ and so all Israel will be saved; as it is written,

"The Deliverer will come from Zion, he will banish ungodliness from Jacob";

²⁷ "and this will be my covenant with them when I take away their sins."

²⁸ As regards the gospel they are enemies of God, for your sake; but as regards election they are beloved for the sake of their forefathers. ²⁹ For the gifts and the call of God are irrevocable. ³⁰ Just as you were once disobedient to God but now have received mercy because of their disobedience, ³¹ so they have now been disobedient in order that by the mercy shown to you they also may receive mercy. ³² For God has consigned all men to disobedience, that he may have mercy upon all.

³³ O the depth of the riches and wisdom and knowledge of God ! How unsearchable are his judgments and how inscrutable his ways!

³⁴ "For who has known the mind of the Lord, or who has been his counselor?"

³⁵ "Or who has given a gift to him that he might be repaid?"

³⁶ For from him and through him and to him are all things. To him be glory for ever. Amen.

Paul is continuing his discussion of God's plan of salvation and love for all of mankind.

Israel was God's chosen people, he led them out of their captivity in Egypt and to the promised land. He blessed them in innumerable ways, giving them food in the desert, protecting them for years until they reached the promised land that he had promised to their forefathers hundreds of years before. Once they had the courage to go into the promised land, God led them in battle to defeat all the armies and capture the cities and villages that they would eventually occupy.

Based on the faith of Abraham, God took a lowly tribe of people who were in slavery in Egypt, gave them one of the richest countries in the area and built a powerful nation.

The entire story of the exodus of the Jews from their slavery in Egypt and their occupation of the promised land represents God's plan of salvation for all

people. The parallels between the stories in the old testament and spiritual salvation are amazing.

God's plan for spiritual salvation (eternal life in Heaven) is based on the sacrifice of His Son Jesus for the forgiveness of our sins. Jesus was born as a Jew to first preach the plan of salvation to God's chosen people. God had promised a Messiah to deliver and save Israel. However, most of Israel rejected Jesus as the promised Messiah, instead they were looking for a worldly King who would lead them against the Romans and break the iron rule they were under.

Paul explains that Israel's rejection of Jesus allowed the Gospel to be spread to the Gentile world, but not instead of Israel, but in addition to them. God's plan is for all of mankind to be saved.

We have all equally been disobedient and sinned, hence we all need the forgiveness Jesus provided by His sacrifice on the cross.

God's mercy is freely available to ever person on the earth irrespective of past sins, heritage, religious denomination or anything else.

God has the perfect plan for all of us, which doesn't depend on whether we have been "good or bad" in the past or what church we go to or even if we go to church at all.

This is not too good to be true, it is the sole purpose that Jesus came to earth and died for us. Jesus paid the price for our sins so we would not have to. Jesus represents God's ultimate gift of mercy to us.

All you have to do is accept this gift by confessing that you have sinned and accepting God's forgiveness through Jesus' sacrifice on the cross.

In verse 33 Paul relates the ultimate wisdom of God in designing this perfect plan to offer all men salvation through His grace.

It is amazing to me to consider the concept of God, the creator of the earth and the entire universe loving each person as His own child and devising a plan to give us eternal life in heaven with him !

He is truly our Father who loves us beyond comprehension -won't you accept this love today and ask Him to forgive your sins ?

God bless you all.

NIAD - A CHRISTIAN RUN BUSINESS

NIAD NEWS *and* UPDATES

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From The Editor's Desk:

I think you'll find this a very informative issue, filled with exciting information and products. Our little orphaned ADAM just keeps on trucking with the aid of all the fine support groups around.

Please see the articles in last months issue relative to American Design and their thoughts on developing additional ADAM hardware. It is important that you take the time to write to these people to let them know you are interested in them supporting the ADAM. If you the ADAM owners don't make your interest in your ADAM known to these developers, they will not invest the time and money in providing additional ADAM products. New ADAM products are only developed if you ADAM owners take the time to tell the people who support the ADAM what you want. See Charlie Smith's article in this issue for more information on this subject.

The first prototypes of a *new 256K/512K/1 meg memory* expansion board are nearing completion by E&T. The next step after the prototype boards are tested is to go into production. The real question here is how many to produce and we need you ADAMites to tell us.

The price of the 256K board, based on the current price of memory chips will be approximately \$200. Please write to us and let us know if you will be purchasing one of these boards in the mid-May time frame when they will be first available. It is important that you let us know quickly so

appropriate plans can be made. The price of memory chips should be coming down, so this \$200 will drop in the future, not go any higher.

The projected price for a 512K board is \$300. You will need to have a parallel printer interface card to provide the addressing which allows you to get at the memory over 64K, otherwise you can use the card as a 64K memory expander until such time as you obtain a parallel interface card.

Again, we need you to write to us with a firm indication that you will order the memory expander or plans can't be made for production.

Another new product that is nearing completion is an image scanner that attaches to a dot matrix printer and is used to "read in" a picture/ diagram and convert it to an ADAM graphics image. This image can then be edited or used in any of the graphics and printing programs currently available. This device can greatly expand the utility of these graphics programs and aid in producing even better graphics for both viewing and printing. Any high contrast image can be scanned - pictures, signatures, logos, graphics produced by other computers, etc.

The projected price is around \$100, but this will depend on how many serious buyers there will be. Again, please send in a letter/ card and let us now if you will definitely purchase an image scanner when available.



e have heard that Sol Swift has moved to North Carolina and due to some financial difficulties has had to suspend operation of Digital Express. He recently indicated in a phone conversation with Tony Patterson of Digital Adventures (TEMPLE OF THE SNOW DRAGON) that he hoped

to be back in operation soon and would be sending letters to all members to explain the situation.

NIAD certainly hopes this whole situation gets rectified soon for the sake of all the people who have paid for subscriptions and products they haven't received. You may write to S. Swift at the following address to get more current information:
 P.O. Box 814; Belmont, NC 28012

GOOD NEWS

Take a look at some of the new Public Domain Software that

we have added over the last two months -

A-CHESS, a graphics chess game!

THE ANIMATOR, a sprite development and animation tool

SPEED CHECKER, see if your tape/disk drives are running properly

FRENCH BASIC +, enhanced version of SB v 1.0

SMARTBASIC V2.1, enhanced version of 2.0

SPRING SPECIAL !!

Receive two great games with every product order of at least \$25 - SUPER SUB ROC & JEOPARDY. These two games are some of the best ever made for the ADAM !!



Notice



→ Denny Keheo, the developer of **SmartTERM V1.02**, will be releasing the first update to this great telecommunications program sometime this fall. Among the improvements for V2.0 are: enhanced speed, SydModem support, DUArt Serial Card support, EVE SP-1 support, keyboard macros, extended library, SmartTERM batch file transfers and full XMODEM support! User's with proof of purchase of V1.02 or lower will be entitled to a large discount on V2.0.

→ Ron Collins of the Northern OHIO ADAM Hackers can convert Zork Trilogy, Leather Goddess' of Phobos, Ballyhoo, Plundered Hearts, Station Fall, PrintMASTER+ and WordStar V4.0 for use under ADAM CP/M. You will have to send in the original program disk (you can buy most of these at any computer store) with \$5 to cover copying, shipping and handling. Ron can also supply one with a disk version (Double-Sided 320K) of Richard Scarry's Best Electronic Workbook Ever for the same \$5 fee, send in the label insert for proof of purchase. Ron Collins - 529 Grandview Ave. - Barberton, OH 44203.

→ E&T Software has recently purchased new state of the art duplication equipment and they are now offering a one year limited warranty on all their data packs. If any of their data packs fail due to bad blocks during the warranty period, they will replace it at no charge. The CP/M user need only copy block 0 and 1 from a CP/M formatted tape onto the E&T tape to use with CP/M. We will be switching the NIAD Economy tapes to E&T's brand in the near future. Same price!

→ E&T Software is also completing work on their 256K Mega Ram Expandable Memory Card. This board, which is expandable up to 1 MEG, will be compatible with all existing hardware and software and should be available around the middle of April. No addresser card will be made available, so you will need a Parallel Interface to complete the addressing of the 256K Card. If you do not do so, the memory card will be recognized as a 64K Expander. Tentative prices (depending on the ram chip prices which have begun to fall!) are: \$200 for 256K, \$300 for 512K and \$500 for 1 MEG. Other E&T hardware projects include a serial/parallel interface, a 1.44 MEG 3 1/2 High Density Disk Drive Conversion with an optional switch to allow for the reading of the 720K format 3 1/2 disks. Also, they are thinking of working on an interface that will allow the hookup of home monitoring items to the ADAM and therefor different home appliances, lights, etc. can be controlled by your ADAM!

→ Video Gaming & Computer News seems to be out of publication. This giant of a newsletter (ADAM, Sega, Nintendo, Atari, Commodore, Apple and IBM support) had some revolutionary ideas planned for the ADAM and will be sorely missed.

→ PortA-ADAM has been released by ADAM'S HOUSE. Yes, a portable ADAM. The unit itself is \$159.95 plus shipping and

with the case \$189.95. Contact: ADAM'S HOUSE, Route 2, box 2756, Pearland, TX 77581, (713) 482-5040.

→ Al Roginsky, creator of LAS VEGAS CRAPS and many public domain titles, has just released a new casino game called **KENO** and also another public domain program called **CHESSE SOLITAIRE**. Watch for news on these two



products in an upcoming issue.

→ SpeedyWrite Software has just released **ADAM CONNECTION**. This program will allow you to convert ADAM files to IBM files. Fully converts SmartBASIC files to IBM ASCII text files, also SmartBASIC data files, SpeedWrite V1 and V2 text files to ASCII, transfer any binary file, rename, delete and get status of any ADAM file from the IBM, change status of any file (protected, deleted, etc.) format any single or double sided disk for ADAM use in 1/4 of the time it takes ADAM, copy single or double-sided ADAM disks on the IBM. Requires an IBM PC or compatible with MS-DOS or PC-DOS version 2.0 or higher with 360L 5 1/4 disk drive and at least one ADAM 5 1/4 single or double-sided ADAM disk drive. The program only retails for \$24.95 through M.W. Ruth and is a great addition if you are running a user's group and own an IBM or clone.

→ We have finally received a copy of **SUPER BASIC PLUS** by TCR Software (ZADAM ELECTRONICS). We will have a complete review of this tremendous modification of SmartBASIC V1.0 in the next newsletter so that we can spend some time hacking away with it. If you are a software developer, this is the BASIC programming language to use. The program can be purchased through Computer Quorum of America for only \$7.95. Write or call them at: ATTN: D.L. Decker, Route 2, Box 14-B, Spring Mills, PA 16875-9720, (814) 422-8339.

→ We are now offering a special for all members who wish to contribute articles to the newsletter. If you send in an article (written by yourself) on disk or data pack, we will send back the media with your choice of the many different titles we now have in our public domain. Come'on people, let's get those fingers typing, this is your newsletter, not only ours and we would love to here from you and also get some different perspectives from the ADAM world.

→ NIAD accepts advertising for ADAM products and services. Cost is \$50 for a half page ad and \$75 for a full page ad for one month. Contact us for multi-issue discounts. Well over a thousand people receive our issue each month and many more get to see it second hand so don't pass up the opportunity to get your product into the spotlight.

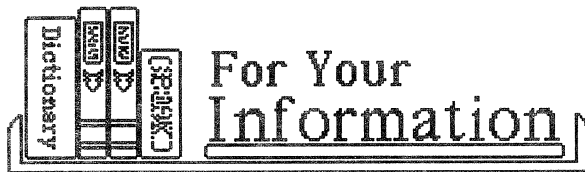
→ Backissues of the NIAD newsletter are available for \$2.00 each (from January '85 to April '89). These issues contain much valuable information that you can take advantage of!

→ NIAD welcomes software developers to submit their programs for us to evaluate for possible commercial sale. Send in your products and ideas to us for evaluation.

→ Our Chicago Local Chapter meetings are a great way to learn more about our beloved ADAM. You have the opportunity to meet fellow ADAM owners, ask us questions and see live demonstrations of new products. We meet here at the store on the second Thursday of each month at 7:30 PM. The next meeting will be held on May 12th.

→ If 0489 are the first four digits of your member number as printed on your mailing label, this is your last issue. Send in your renewal of \$19 for third class or \$26 for first class/Canadian.

→ We have exercised due care in the preparation of this newsletter. No warranty expressed or implied with regard to the information contained herein is given, either by interpretation, use or misuse. The opinions expressed herein do not reflect those of the editor or staff.



☞ Here is another ADAM BBS that is run by THE ADAM CONNECTION, whom is a new ADAM retailer. You can even place COD orders on their BBS for the products they carry:
THE ADAM CONNECTION
 SYSOP: Steven Major
 300 Baud / 7-E-1 / A-NET
 8:30 pm - 7:30 am Mon-Thurs, 5:00 pm - 10:00 am Fri-Sun
 (518) 298-8193

☞ Here is yet another ADAM BBS that is operating:
LITTLE ORPHAN ADAM BBS
 SYSOP: ?
 300 Baud / 7-E-1 / A-NET
 24 Hours 7 days a week
 (402) 455-8308

☞ Here are some other BBS's which support the ADAM or are run by an ADAM that were listed in the January issue of the Sprite Chaser:
 Hudson ADAMLink - (201) 224-5764
 221 Baker Street - (404) 862-9156
 ADAM/IBM SmartLINK - (404) 424-6258
 Bob's Corner - (904) 373-5864
 Cleveland FreeNET - (216) 368-3888 Type: GO ADAM
 Tony's Corner - (313) 754-1131
 Ajax Ontario Canada - (416) 427-0682
 The Starship - (615) 344-2163



* A new AUG has been formed in British Columbia. If you live in the area, contact them at the address below and tell them where you heard about their group: V.I.S.A., Compt. 36, Site 116, RR #1,

Porksville, B.C., Canada V0R 2S0

* Here is another AUG that has been recently formed: TCAUG, c/o RAYO, 1012 North Court St., Visalia, CA 93291.

* Another new ADAM Software Co. has been formed which deals with adult oriented software. They already have a large selection of games, graphics and phrase paks available. For more info and a catalog contact: ADAMzap Software, 17 Capstain Rd., West Milford, NJ 07480-4816, (814) 867-9309 or ADAM CONNECTION, P.O. Box 562, Champlain, NY 12919, (518) 298-8193. NIAD will not support any of these AO products, but will leave it up to you, the consumer, to decide if you want to purchase any of these items.

* Recently, while talking with Jay Forman of M.W. Ruth, he stated that 20 new ADAM programs were soon to be released through M.W. Ruth. This is great news for us ADAMites! Watch for details in the coming months.

* ADAMzap Software has recently released some new software titles: NAVIGATOR - an adventure game, ZORAN III - an adventure game and CHILD'S PLAY - an educational game. All are said to include use of graphic screens, sprites and use of the EVE SS-CC. Watch for a review as soon as we get some demos in or write to them at the address listed elsewhere in this issue.

* Gerlach Family Software has several volumes of original artwork for use with PowerPAINT, PrintWORKS, SignSHOP, NewsMAKER, CLIPPER and Basic. Contact for a catalog: Ricki J. Gerlach, CMR Box 757 - DET II, 44th SIG, APO, New York 09175.

* Here is another ADAM support group. Membership is \$10. Information is free: PD User's Group, ATTN: William Rogers, P.O. Box 1442, Orange Park, FL 32067

* L.O.F. Communications has several volumes of artwork for use on ADAM. Write to: L.O.F. Communications, P.O. Box 587, York, PA 17405

* Sorry to say, but we are all out of CP/M 2.2 and can't find any other sources. We recently were told that Coleco has a large quantity of ADAMLink Modems, so we should be getting some more of these in shortly.

* Dear NIAD,

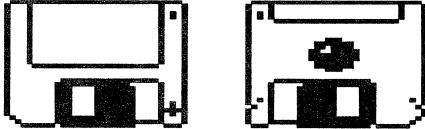
Help! Desparately needed information on any geneological software used in family history publishing or work, compatible to ADAM. Please advise as to availability and cost. Please contact:

Elizabeth B. Lavicka
 4850 S. Lake Park Apt. L606
 Chicago, IL 60615

* Dear NIAD,

My name is Ronald N. Painter and I am looking for any info on using ADAM with Amateur Radio-HAM. Anyone else out there already doing so please give me a call, N9 GKH.

Ronald Painter
2920 Fleetwood Dr.
Racine, WI 53403



* Dear Folks,

I recently purchased a 64K Memory Expander whose basic instructions stated: ".....insert it into slot number three on the right side of the computer with the components facing the right." ".....Operation is dor the most partun-noticed by the user."

Thinking about the last statement for the moment, I figured that (without the expander), whenever I wanted to find out how much RAM space there was left in the workspace, all I needed to do was to type: PRINT FRE(0) and up on the screen would appear the number 25954 (the available RAM space after the booting operation, and the HELLO program has been erased from memory).

Assuming this command would work just as well with the expander connected into the system, the new number that would have appeared on the screen would have been 89954. But, there was no change.....NOTHING different! I then reconnected it several times there after, making sure each time that the alignment was precise, and that the expander was entirely secured within the adaptor. Still, there was no change. Still the same original number 25954.

Thinking that perhaps I received a faulty unit. I returned it to the distributor in place of another. The second unit was like the first.

This effort has been with the assumption that the command: PRINT FRE(0), would have worked for either situation (with/without the expander). Am I right to assume this? The distributor said that the first unit proved OK when they tested it.

Is my system at fault? Am I doing something wrong or should I be doing something different in addition to what has already been done? What are Slots #1 and #2 for? Are there any ADAM users in my area of residence?

I anxiously await your reply. Thank you for your attention to this matter. NOTE: the 64K Memory Expander is from Orphanware.

Richard C. Whiting

ANSWER: As far as the operation being un-noticed, the second you turn on your ADAM, it knows the 64K Board is there. For example, with SmartWRITER on a standard ADAM system you have a maximum of 10 pages of text, but with the

64K Memory Expander, you will have upto 20 pages of available text room. As for SmartBASIC V1.0, there currently isn't a program available that will let you use the 64K board as extra programming space. If you have noticed over the past year, a lot of programs require the use of the 64K board, the way the programmer is using it is by copying files onto it and then running the program of of drive #7 or the ramdisk. Ramdisk? What's a ramdisk you say? A ramdisk is a drive that is only in operation when the ADAM is on, once you shut your ADAM off, everything that was on the ramdisk (memory expander) is lost. In order to setup a ramdisk, you will need one of the many utility programs that are available that include the option to create a ramdisk.

The one that NIAD highly recommends for SmartBASIC V1.0 or V2.0 is SmartDSK III & Utilities. What SmartDSK does is to re-write a certain section of ADAM's operating system to allow it to recognize the memory expander as a physical temporary drive. With this utility you have the option to save your work (SmartBASIC program) onto the ramdisk (drive #7). You can perform all of the file handling functions that SmartBASIC allows with the ramdisk (save, load, brun, bsave, delete, lock, unlock, init, etc.) and as long as the computer is on your files will remain on this drive. Another nice option of the ramdisk is that you can save your work to the ramdisk in BASIC and then load another program (as long as it doesn't use the memory expander) and later reload SmartBASIC and still have access to these files you had previously saved. The time to load and save from the ramdisk is super-fast and can cut down the load time of the data drive and even the disk drive tremendously.

If you have SmartBASIC V2.0 (public domain), you can access the 64K board through the use of a new command: EXTMEM. This will give the user over 90000 bytes of free RAM in which to program. To return to standard, non-use of the memory expander, you would enter in the command: STDMEM, which would return you to 25964 free bytes. Once again, with SmartDSK III, you can set up the ramdisk in V2.0 if you don't need all the extra programming space.

If you have a program like BACKUP+ 3.0 by MMSG, you would have noticed that when you loaded it up, it would display a message that it has a 40K copy buffer. With the 64K board installed, this same message will come back with a 102K copy buffer. File Manager also accesses the memory expanders for a copy buffer, but also allows you to ignore the expander in case you have it set up as a ramdisk and have files on it that you don't want to lose yet.



As many of you have noticed, much of the software that is now becoming available requires that the user has a memory expander from 64K upto 256K. If you want to take advantage of the ADAM's fullcapabilities, I would recommend the purchase of a memory expander and also a little research in past issues of NIAD to read up on SmartDSK I, SmartDSK II, SmartDSK III, File Manager and also the many programs that require the userhave a memory expander.

Also, Slot #1 in the ADAM CPU is for the ADAMLink Modem and Slot #2 is for a Parallel Interface which allows for the use of a dot matrix printer. You want your ADAM to fly, get a dot matrix pinter.

* Dear NIAD Members,

I am looking for the instruction manual for the Chatterbox Voice Synthesizer. If anyone has the manual or can supply me with a copy of this manual, please feel free to call me collect or write to me at: (312) 882-0110, Terry Kayser, 2308 Birdsong Ct., Schaumburg, IL 60194.

* A bug has been discovered in the Open Recipe section of the OpenFILER program. This bug will prevent the program from reading databases made with Recipe Filer on disks. This problem was reported to me in March, but has existed in all copies of Open Recipe or the new version of OpenFILER V3.0 with OpenRECIPE. Users who have purchased OpenFILER V3.0 with OpenRECIPE or purchased OpenRECIPE from another source may send their media to me for correction. Please include \$1.00 for postage. Send to: Acolyte Software, 30 Arborway Dr., Scituate, MA 02066.

* And the winner of the SNOW CONTEST from a couple months ago is: Dan Pease. Surprisingly, there were only three entries into this basic programming contest (the others being by C.R. Woolums and N. Lukach) and we thank those that spent the time to put something together. I guess the rest of you were either too lazy to try or didn't feel you had the talent to do modify a Basic program. I can't help you with the first problem, but I would say that more of you have programming talent then you give yourself credit for. All you have to do is give it a try - nothing ventured nothing gained ! We will be running another contest in the near future so get your old NIAD issues out and brush up on Basic programming.

Dan Pease's program starts out with a musical score that leads into a character running across the screen as the snow falls from the sky, at times he slips and falls to the ground. After making it across the screen, the program will generate random snow flake patterns that fill up the entire screen. For being choosen as the winner of the SNOW CONTEST, Dan Pease will receive a free one-year membership extension and a free copy of SUPER BASIC PLUS by TCR Software. See it pays to enter contests!

NEW PRODUCTS / SPECIALS

- * 64K Memory Expanders without the 2 required 4464 memory chips - \$27.95
- * 64K Memory Expanders with memory chips installed and ready to use - **REDUCED TO \$49.95**
- * Double-Sided 320K 5 1/4 inch disk drive - \$259.95

- * Panasonic 1191i - \$289.95 w/ parallel interface, cable and software - \$329.95
- * MegaCopy DDP Formatter - \$59.95
- * Serial Printer Interface Cables - \$15.95

*** SOFTWARE**

- PRO GOLF CHAMP & LINK BUILDER - \$39.95
(See recent review of LINKBUILDER)
- SMARTTERM 2.0 - \$15.95
- INVOICER - \$14.95
- SMARTAX - \$17.95
- ADAM BOMB - \$19.95
- EASY AS A,B,C & 1,2,3 - \$11.95
- FORMATTER II - \$12.95
- ADDICTUS - \$15.95
- SPEEDYWRITE SPELL - \$24.95
- SPEEDYWRITE V2 & SPEEDYWRITE SPELL - \$57.95
- BORDERSPLUS (for PrintWORKS) - \$15.95
- JEOPARDY & SUPER SUB ROC - \$ 6.00 OR FREE WITH ANY PRODUCT ORDER OF \$25 OR MORE

NEW PD PROGRAMS - SEE P.D. PRODUCT LIST



Warrant



Mosque



Chapel



Sunrise



Bells



Space



Drink



Heart



CoffeeCup



Candle

AN OPEN LETTER . . .

BY CHARLIE SMITH

ADAM ADVOCATE



We're almost there! Coleco- Compatible videogaming is poised for a re-introduction into the mass market! Over the past several months, I have been engaged in trying to unite the ADAM community in a letter writing campaign aimed at getting a Coleco-compatible videogame system to compete on the mass market level with other systems such as Nintendo, Sega and Atari XE systems. So far the results of this campaign have been quite strong: thanks to efforts of numerous ADAM users who have contributed to the campaign, the re-introduction of Coleco-compatible videogaming -- and, for that matter, of Coleco computing as a whole -- seems to be just around the corner. However, in order for us ADAM users to see the fulfillment of this goal, we must continue to let the two key manufacturers of Colecovision-compatible systems realize that the ADAM community strongly urges them to issue their Coleco computing and videogaming systems onto the mass market.

A light at the end of the Coleco-compatible tunnel: The Personal Arcade by TeleGames is the key to the return of large-scaled Coleco computing and videogaming!!! As you probably know, TeleGames USA (P.O. Box 901, Lancaster, TX 75146, (214) 227-7694) is surveying the ADAM community in an attempt to evaluate the grassroots support that their 100% Colecovision-compatible videogame system, the Personal Arcade, has in that community. If a large enough number of ADAM users, manufacturers and product distributors express their support for the Personal Arcade, TeleGames USA will probably release the Arcade onto the videogame mass market. Of course, this means that the sales of Coleco-compatible machines and software would reach heights the likes of which we have not seen since the heyday of videogaming back in the early 1980's. If the Personal Arcade is released on a mass market scale, there is a very good chance that the ADAM computer would once again go into production as an expansion peripheral for the Personal Arcade. If you read the ADAM Forum in Computer Shopper magazine, you already know that American Design Components (815 Fairview Ave., Fairview, NJ 07002, 1-800-524-0809) is considering the production not only of new ADAMs, but also new ADAM hardware -- such as an 80-Column Color Video Display.

Your letter can make the light shine even brighter... In order to assure the mass market release of the Personal Arcade, we must all continue to let TeleGames USA know that they have the widespread support of the ADAM community in their efforts to mass produce the Arcade. Even if you have already written a letter to TeleGames asking them to release the Personal Arcade onto the mass market, please write to them again and reaffirm your support for it's wide-scale distribution! Likewise, let American Design Co.

know that you back their decision to produce new ADAM computers and new ADAM hardware peripherals! Only we, the ADAM and Colecovision supporters, can make the dream of once again having large-scale Coleco-compatible computing and videogaming come true! The ADAM and Coleco gaming community is **SO VERY CLOSE** to seeing our systems once again being sold at the retail store level -- let's not become complacent. We must make our very best effort to write letters of support both to TeleGames USA and to American Design Co.!

DON'T HAVE ANY DOUBTS -- AND HERE'S WHY... If you have any doubts as to how effective your letters may be in getting the ADAM and the Personal Arcade onto the mass market, let me assure you that your continuous involvement in this ongoing letter writing campaign really does have a very strong effect! For example, only one year ago the ADAM was not mentioned in any major computer magazine. Then a letter writing campaign to Computer Shopper magazine resulted the creation of a monthly ADAM column, Paul Pappas's ADAM Forum. In fact, the ADAM often has not one but two columns in CS -- Faye Deere of the Emerald Coast ADAM User's Group also writes an ADAM column in CS. That's right, the ADAM has two columns in Computer Shopper -- the largest computer magazine in the world. And it was all made possible by the unified letter writing efforts of the ADAM community. As you can plainly see, your letters have a definite effect with regard to the status and popularity of the ADAM. Now the time has come to do the same for the Personal Arcade!

Why support the Personal Arcade in light of the success of the Nintendo and the Sega game machines? The answer is... Despite the great success of the Nintendo and the Sega game systems, the Personal Arcade will easily find a niche (and a large niche at that!) in the videogame market. For example, the Personal Arcade has better graphics than the Atari XE game machine -- at a lower price than either the Nintendo or Sega systems. Furthermore, the Personal Arcade is expandable -- neither Sega nor Nintendo can make that claim for their machines. Indeed, the Personal Arcade is the most expandable videogame system in existence thanks to it's massive expansion port. How does the Personal Arcade match up against the Intellivision INTV III? Well, the Personal Arcade costs about ten dollars less, it offers far superior graphics, and it has many more game titles. How does the Personal Arcade fair against the Atari 2600? Well, for just ten dollars more than a 2600, the Personal Arcade gives you infinitely better games, graphics and sound. What about the Atari 7800? The Personal Arcade costs twenty dollars less than the 7800 -- and it has an equivalent graphics resolution to the 7800 plus it has more titles, plus it has expandability -- you couldn't expand a 7800 if your life depended on it! And what about the price of game cartridges? The Personal Arcade's carts often cost less than half than that of Nintendo and Sega carts. In almost every area, the Personal Arcade offers a better price-to-performance ratio than any of the other videogame systems presently on the mass market. Now can

you see the niche that beckons the Personal Arcade?

Now let's assume that the Personal Arcade did make it into the mass market. How could it compete with the large-memory and razzle dazzle graphics of the Nintendo and Sega systems? The Z80 powered Personal Arcade has the same type of microprocessor as the Sega -- that explains how the Colecovision manages to out do even the Atari and Commodore 8-bits in terms of graphic display: obviously, the Z80 handles sprites better than most 6500 series MPUs. As I mentioned earlier, the Arcade's resolution is actually the equivalent of the Atari 7800! But, what about memory? The Nintendo cartridges use up 128K at a pop. The Sega games often contain one megabyte per cart (some Sega carts use four megabytes.) How could the Personal Arcade possibly match those kinds of figures? Easilly. The Personal Arcade can match the memory usage of the Nintendo through the use of bank-switching game cartridges (the Atari XE game machine does just that.) But what about games that use more than 128K? Hey, remember that the Personal Arcade is expandable! By adding an ADAM expansion module to the Arcade, it's possible to boost the Arcade's on-board RAM past that of either the Sega or the Nintendo! Thus, high RAM games are a natural for the Personal Arcade console -- and this is even more so if a user adds an ADAM expansion module to his/her Arcade!

So there you have it. The Personal Arcade can compete on the mass market -- have absolutely no doubt about it! Please let TeleGames USA know that they have your support in getting their Arcade into American and Canadian's video mass marketplace. Even if you have written to TeleGames USA about their Personal Arcade on a prior occasion, please write to them still again. Remember, if we ADAM user's succeed in getting the Arcade onto the mass market, the ADAM will make a comeback the likes of which the computing world has never seen before! We are incredibly close to achieving this dream -- so let's give it our very best shot and make sure that our dream becomes a reality!

***WITH VERY BEST REGARDS,
CHARLIE SMITH***

EDITOR'S NOTE: This letter not only applies towards the companies, TeleGames and American Design Co., but to all the ADAM User's Groups, Retailers, Software and Hardware Producers and any other miscellaneous type of services that people are offering for the ADAM and Colecovision. Let these companies know that you appreciate all their hard work and that you are interested in future projects. This is a time in ADAM's life where a lot of companies are beginning to move onto other systems, but still yet many new companies are springing up with all types of support for the ADAM. Sit down for a few minutes once in awhile and write to these companies so that they know their time and hardwork is not a waist. These companies will be glad to hear from you and will more than likely take the time out themselves to write back to you and even include information about their products.

ADAM'S ALIVE

***DID YOU KNOW?
BY RICK LEFKO***

REPRINTED FROM MOAUG MARCH 1989

DID YOU KNOW?

-ADAM's Printer was manufactured in Northern Ireland?
 -that switching to MANUAL RECALC while using ADAMCalc make the program work more quickly?
 -that the ADAM Disk Drive was manufactured by Micro Peripherals, Inc. (M.P.I.)?
 -you can change your SmartBASIC cursor by poking address number 16953 with any number from 1 to 255? (try POKE 16953,9 then TEXT <RETURN>)
 -that sometimes placing aluminum foil under a TV that's being used as a monitor reduces interference?
 -that pressing <CONTROL> 'R' in typewriter mode will tell you the current revision of your ADAM? (should be R80)
 -that ADAM's operating system was developed by InfoSOFT, and is labeled I/OS?
 -by pressing <CONTROL> + '[' in typewriter mode will take you to SmartWRITER?
 -that to find out which revision your BASIC tape is, load BASIC and type: PRINT PEEK(260), 79 or above seems to be good.
 -that ADAM's CP/M 2.2 program was written by Digital Research?
 -that there is a special set of questions about the authors of the JEOPARDY public domain game? To get them to load do the following: after booting your media and getting to the point where it asks whether you are using a question pack, hold down the CONTROL key and press the up arrow key, then the right arrow key, then the down arrow key and finally the left arrow key. The questions will then be loaded.
 -that ADAMCalc was written by Laser Microsystems? You can access a 'secret' screen that shows symbols and initials for each of the programmers who worked on ADAMCalc. To see it, load ADAMCalc and when the screen asks if you want on-line help, don't answer. Instead, press the up and right arrows at the same time; then type in the following word: surfnazi (all lower case letters, no punctuation.) For some reason, this doesn't work every time, so you may have to try more than once.
 -that if the Digital Data pack you just loaded is defective and does nothing except spin, don't turn your ADAM off, just pull the cartridge reset.
 -that pressing <CONTROL> and the letter 'R' after booting just about ANY original ADAM software will give you it's revision number?
 -that if you have a single-sided disk drive, you SHOULD keep the door closed to guard against dust, but if you have a double-sided drive, you should NOT unless you insert a disk in the drive? (To keep the heads from knocking each other around).
- This list is far from complete. There is much more ADAM trivia or general information that could be listed here, so how about helping me continue this list from time to time? Please send any trivia you'd like to share to: ADAM INFO - Rick Lefko - 499A Boston Road - Groton, MA 01450

Did you know I need your help? Please help, won't you

P. D. WORKSHOP

FRENCH BASIC + (BASIC +)

French Basic is a tremendous addition to the ADAM Public Domain. It was developed (modification of SmartBASIC V1.0) by a programmer in France and has found it's way to our friendly shores. Many of SB V1.0's bugs (Data/Rem, Brun, 'H' file recovery, etc.) have been fixed along with many other cosmetic changes. By the way, all the modifications are done to the SB file and are not loaded via a HELLO program. If you are a programmer and use sprites a lot, you will love this public domain package. No more poking and calling the sprites attributes into RAM. You have actual commands to set the sprites in memory and also to move them around. Screen color codes no longer have to be poked into their respective addresses in RAM either, rather a very simple command replaces the pokes and changes the colors immediately upon line execution or even in the immediate programming mode (you can still you the different pokes to change the screen and text colors). Below is a list of the seven new commands, some of SmartBASIC original commands are no longer in effect, but they are commands such as BREAK which another the STOP command performs.

NEW FRENCH BASIC COMMANDS

- 1) CBORD color # (# is the border color 0-15)
- 2) CPAGE text color #, window color # (# can be 0-15)
- 3) DEFSPR sprite #, memory location (used to set sprite data into RAM memory)
- 4) OVER - graphic command for over laying on graphic.
- 5) OUT - sound generation command.
- 6) SPRIT # AT Column #, Row # (ie: SPRIT 1 AT 100,80)
- 7) WINDOW horizontal #, vertical # TO horizontal #, vertical #

The default full screen window is: WINDOW 0,0 to 23,30

To show you how easy it is to set sprites into memory and use them, look at the next program:

```
5 LOMEM : 30000
6 FOR a=28200 to 29223: READ x: POKE a,x: NEXT a
7 FOR x=0 TO 31: DEFSPR x,28200+32*x: NEXT
8 FOR a=0 TO 31
9 SPRIT a AT 200,200: REM turns all sprites off
10 NEXT a
100 DATA this is where the sprite data would be placed
```

Lines 100 on would contain the data for all 32 sprites. For example, when you save your sprites that you have created with SpritePOWER by Digital Express, you have the option to save the sprite data as an 'A' type ASCII file. This is the option you will want to use. One note, you have two choices for the size of the sprite when creating them, use the larger size. Each sprite is made up of 2 line numbers (ie: line number 100 and 101 would create sprite #1). The two lines combined will have a total of 32 data elements, line 100 containing 16 data elements and line 101 16 data elements.

Line 7: The command DEFSPR places the data for all 32 sprites into RAM. IE: the first time the loop is executed, the DEFSPR command would look like this: DEFSPR 1,28200, the second time through the loop would look like this: DEFSPR 2, 28232, the third time through: DEFSPR 3, 28264 and so on. The demos that show off FRENCH BASIC's powerful new commands were created by Al Roginsky, the developer of LAS VEGAS CRAPS and many public domain programs. There have been some reports that there are some bugs in this program, but I have not encountered any and obviously Al has not since LAS VEGAS CRAPS was programmed using this enhanced version of SmartBASIC V1.0.

SmartBASIC V2.1

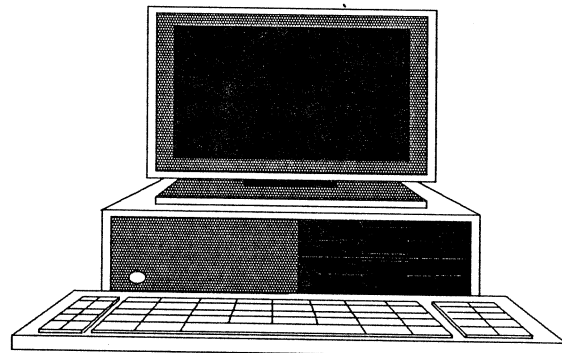
This is a slightly modified version of the public domain SmartBASIC V2.0 program that was put together by Sharon McFarlane. Some of the changes include: WILDCARD = CONTROL-S, UNDO = CONTROL-C, INSERT=inserts one space in front of the cursor, DELETE=deletes one space in front of the cursor. Also included are modified SB V1.0 programs: FILEMANAGER - backup, krunch, copy files, copy blocks and edit directory features. FORMATTER2 - DEI's double-disk formatting program (160K or 320K). BOOTSTRAP2 - for creating a text boot screen.

SmartBASIC V2.0 40 Column Text

This version of SmartBASIC V2.0 gives you 40 column text in either the STDMEM or EXTMEM operation modes without having to load any programs. All the modifications are patched directly into the source code of the SmartBASIC file.

ADAMCALC AND V VOL. # 3

This ADAMCALC public domain volume has over 100K worth of ADAMCALC tutorial files on it written by N. Lucach. If you are just beginning with ADAMCALC, this volume will help you out tremendously in learning how to setup your own spreadsheet formulas and in using the many features of ADAMCALC.



SmartBASIC WORKSHOP

--- NIAD PUBLIC DOMAIN ---
 --- SmartBASIC VOL.# BNDV 33 ---
 --- PROGRAM DESCRIPTIONS ---

HELLO - Loads and runs the menu program.
MENU - Allows for the execution of all BASIC files on media.
1MF - Disk formatting program that uses 1 or 2 drives simultaneously, supports 160K, 320K and 720K disk drives, add 1 to 9 boot blocks and verifies the format.
Abacus - The ancient calculator is displayed on the hi-res screen and the user chooses to +, -, * or /. The answer will be displayed on the abacus board.
AmpDesign - Allows for the design of transistor amplifiers.
ClipReplot - Allows for the adjusting of SmartPAINT picture positioning to make capturing clip-art easier. Use in conjunction with CLIPPER.
CoilCalc - Allows for the design of inductors (or coils).
ColorDemo - A demo of changing the text and inverse colors in text mode. Great routine to add to your own programs.
Ez-Alarm - Must have the EVE SS-CC unit to use. Set the date and time of the clock and alarm setting. When the alarm goes off a chime will sound or a spoken message.
Ez-Compare - A great utility for comparing the similarities or differences of two media.
KeyKlik - Writes a patch to block 0 that will give EOS programs, such as SpeedWRITE, keyklik.
MusicChart - Prints out a chart of musical codes on the ADAM or dot matrix printer that is for use with the SmartTUNES music driver.
OS7-Fonts - A routine which will display the option screen from Coleco's cartridges for choosing number of players and the difficulty level.
Paddles - Shows how one can go about using the joysticks in your own programs.
PixFlipper - Flips a hi-res screen vertically or horizontally. Will also fold a screen horizontally to create a mirror effect.
PP-Colors - A patch to be used on a backup of PowerPAINT Allows for the changing of some of the default colors.
SmartTUNES - Main routine that is patched into RAM and allows for the playing of the 11 songs on this media.
Snd01 - A sound routine. Use it in your own programs.
Snd02 - A sound routine.
Snd03 - A sound routine.
Snd04 - A sound routine.
JingleBell - A music file for use with SmartTUNES.
SilentNite - A music file for use with SmartTUNES.
America - A music file for use with SmartTUNES.
MaryLamb - A music file for use with SmartTUNES.
TakeMeOut - A music file for use with SmartTUNES.
SaintSONG - A music file for use with SmartTUNES.
FirstNoel - A music file for use with SmartTUNES.
ComeAlIYe - A music file for use with SmartTUNES.
HarkSing - A music file for use with SmartTUNES.
WedBells - A music file for use with SmartTUNES.

StarBanner - A music file for use with SmartTUNES.
SBrefDOC - Print this SmartWRITER file and you will have a great reference of SB 1.0's commands, paddle, error, and color codes and a compact index of the SB 1.0 manual.

READMEdoc1 - Documentation file for BNDV-33.
READMEdoc2 - Documentation file for BNDV-33.
NiadBNDV33 - Brief descriptions of all the files on this media. Great when printed out for a reference.

TOTAL OF 37 FILES WITH SmartBASIC V1.0 = 158K

1MF

The One-Minute Formatter is perhaps Digital Express' top contribution to the public domain. It allow for the formatting of 1 or 2 disks (if you have two disk drives) simultaneously, formatting on 160K, 320K and 720K disk drives, you can initialize the media with from 1 to 9 directory blocks (a 1 block directory can hold 35 files, 2 block directory can hold 72 files, etc.). You also have the option to perform a read verify after formatting and can also choose the volume name. This program, however, will not perform a write verify as Formatter II by Walters Software Co. does.

ClipReplot

Have you ever gotten frustrated when trying to capture a portion of a SmartPAINT screen with CLIPPER and the capture box wouldn't line up properly. Well, this basic program allows you to move the SmartPAINT picture pixel by pixel in order position it so as to make capturing a certain area more easily accomplished. The problem with CLIPPER arises from the fact that when you move the capture box, it doesn't move one pixel at a time, rather it moves a couple pixels at a time which means sometimes you won't be able to capture the image intact.

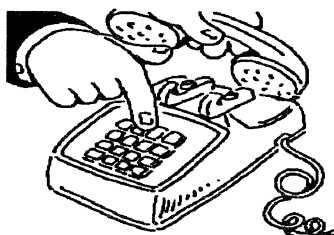
Ez-Alarm

This program requires that you have the EVE Speech Synthesizer/Clock Calendar unit. With this program you can set the date (year, month and day) and the time (hour, minutes, seconds and either AM or PM) of the clock. Then you set the time for the alarm to go off at (hour, minutes, seconds and either AM or PM). When the alarm goes off, either a chime will sound or a message will be spoken. There are some programming tricks included in this program for using the EVE Speech Synthesizer. List it out.

USED / SWAP CORNER

NIAD will be selling used items that we have purchased from ADAM owners. Additionally, members may send in lists of items they want to sell or trade with other members.

We have a few of each item available, we will have to restrict orders on any of the products listed below to phone orders (first call, first serve). If we do take mail orders, it would become a terrible mess. For example, we might receive two orders on the same day for the same product and only have one in stock. So you see that it would not be fair for the person that we don't sell the product to. So please, as they say on the commercial: **PHONE FIRST!** If we do receive any orders through the mail, we will promptly return your order.



CARTRIDGES

Brain Strainers	\$10
Campaign '84	\$10
Carnival	\$10
Fortune Builder	\$10
Jukebox	\$10
Logic Levels	\$8
Super Action Baseball	\$10

FLASH! FLASH! FLASH! FLASH!

If you have anything for sale (software, hardware or supplies, etc.), send in a list of what you are selling and the prices you are asking and we will list it in this column for you at no charge. Please do not send items into us without confirming with us first.

SOFTWARE

32 Basic Programs w/ Book	\$12
ADAMCalc	\$12
Best of Broderbund	\$10
CP/M 2.2 & Assembler	\$10
Expertype	\$10
Flashcard Maker	\$10
Flash Facts: Flashbacks	\$6
Flash Facts: Trivia	\$6
Packcopy	\$6
Recipe Filer	\$7
SmartFILER	\$8
SmartLETTERS & FORMS	\$8
Strategy Strain (DISK)	\$8

HARDWARE

Panasonic 1080i Dot Matrix	\$99
Panasonic 1091i Dot Matrix	\$139.95
Tan Joysticks	\$3
Keyboard Attachment w/ Tan Joystick	\$6
Keyboard Attachment	\$3
Keyboards	\$10
ADAMnet Cable (Coiled)	\$1
Magnavox 80 Column Monochrome Monitor	\$75
Amdek Amber Monitor	\$55
ADAM Daisy Wheel Printer	\$60
ADAM Daisy Wheel Printer with Tractor Feed	\$110
Address Book w/ AutoDialer	\$20
Roller Controller w/ Slither without Power Adapter	\$30
Atari Disk Drive Dust Cover Fits ADAM Drive	\$3
Exp. Mod. #3 Monitor Kit	\$20
3 Piece ADAM Dust Cover	\$10
TV/Game A-B Switch-Cable	\$3

ATARI 2600 CARTS

Asteroids	\$5
Boxing	\$5
Cosmic Ark	\$5
Defender	\$5
Demon Attack	\$5
Empire Strikes Back	\$5
Haunted House	\$5
Riddle of the Sphinx	\$7
Robot Tank	\$5
Smurf Rescue	\$5
Spiderman	\$7
Star Raiders w/Keypad	\$10
Star Voyager	\$5
Super Challenge Baseball	\$5
Venture	\$5
Yar's Revenge	\$7
Warlords	\$5

FOR SALE

* Brand new 320K ADAM Disk Drive (orphanware). All instructions and software included in original box. \$275 U.S. (Shipping and insurance to Canada or U.S. included). Contact: Dave McIntosh, 7 Monsarrat Cres., London, ONT, CAN N5Y 4Y7, (519) 679-0578.

* Complete ADAM System with 64K Board, ADAMLink Modem and disk drive plus many software, cartridges, books and supplies all for \$200. Contact: Steve Gawlik, 212 S. Elmhurst Ave., Mt. Prospect, IL 60056, (312) 398-4517.

* Complete ADAM System and Exp. Mod. #3 ADAM for sale, \$100 each. Thompson Monochrome monitor \$75, 2 disk drives each \$150 plus numerous software and supplies. Contact: Robert Keller, 429 E. Oak, DeKalb, IL 60115, (815) 756-1420.

* Game cartridges for sale: Tank War \$10, River Raid \$7, Star Wars \$5. Software for sale: Mage Quest \$5, CopyCart+ 1.0 \$7. Contact: David Luginbuhl, 3758 Oak Forest, Toledo, OH 43614, (419) 382-1317.

* New ADAM tan colored game controllers \$8, 64K Memory Expander \$48, Optional Power Supply with Cover \$30. I will ship free to you, send money order to: Bob Kologe, 56 Woodruff Ave., Thomaston, CT 06787, (203) 283-9631.

* Two complete ADAM systems for sale. Contact: Lee Huntsberger, R.D. #2 Box 205-B, New Milford, PA 18834

* Complete ADAM system plus many Coleco software programs and cartridges. Contact: Marilyn Murzyn, 601 Iroquois Trail, Carol Stream, IL 60188, (312) 653-5531. Asking \$275 for everything.

* Complete ADAM system, Exp. Mod #3 ADAM, 1 disk drive, Exp. Mod. #1 for Atari, assorted cartridges and software. Contact: Stuart Edeal, RR 1 Box 102, Loomis, NE 68958.

THE SAGE SPEAKS

The Wizard of Dalark

MORE ON THE DALARK STORY

As the morning sun begins to rise above the Samenia mountains, the dark clouds of storm from last evening seem to disseminate and flee from the growing light. It is almost as though they knew that this would be a very special day -- a day of rejoicing and merriment. For upon this day, the marriage of the crowned prince David of Drumeria to princess Lydia of Kroden will officially put an end to the bitter war that has raged between the nations for three generations. The hostilities ended months ago, but until this bond is sealed, the specter of war hangs heavy in the air.

The preparations are complete, down to the last detail. Everyone who is anyone is here to celebrate this auspicious occasion. Everyone that is except your beloved. A dark and terrible fever overtook them last evening and has yet to break. The honored guests are seated to each side of the dias, high upon the balcony of the east wall of the palace. The cheering throngs have gathered in the courtyard below. Everywhere are splendid decorations and flowers and the banquet tables are heaped high with every delicacy imaginable.

The trumpets blare forth, their song announcing the beginning of the ceremony. As the musicians start to play, prince David and princess Lydia start the slow march to the dias. As the couple comes into view, the crowd below shouts their approval. The shadows from the remaining clouds flee before them. All the shadows save one, which seems to grow larger as they draw near to the dias.

A heart-stopping roar brings everyone's eyes toward the sky. Hovering high above on it's leathery wings is the Dragon of Dalark. A dark figure sits astride the massive shoulders. Even before the royal archers can bring their arrows into play the demon dives, strafing the balcony with it's freezing ice daggers. Many are killed outright while others are frozen solid. A flurry of arrows meet the beast on the second pass, but to no avail. The steel tipped arrows bounce harmlessly off the thick scales, falling into the crowd below.

At the end of the second pass, the mighty Dragon of Dalark whirls around and blasts the balcony with it's fiery breath. The blast shatters the stone balcony, collapsing in upon itself to fall into the crowd far below. There are no survivors.

As the Dragon of Dalark wings it's way northward, a hideous laughter is heard fading in the distance . . .

THE SAGE SPEAKS

EDITOR'S NOTE: The following questions are excerpts from mail recieved by Digital Adventures regarding *Temple of the Snow Dragon*:

Q: I have tried everything and can not get into more than 12 rooms . . . HELP!

A: You must have a key to move deeper into the TEMPLE. A key may be found in the lair of the wizard MONDREL.

Q: but every time . . . MONDREL turns me to stone; how do I get past this nefarious fiend?

A: The answer you seek may be found inside the chest that is hidden within the dungeon.

Q: I can not seem to get the hang of the power meter . . . I will be doing fine and then some bad guy will come along and trash me. Is there a secret to the power meter?

A: To attain a high power score, you must hit the INSERT and PRINT keys in sequence (first one than the other), AND you must do so fast. As long as you hit them in sequence, the faster (not harder) you hit them, the higher the meter will go and the better you will fight.

GAME HINTS

Always read every message, some will be presented only once.

Save your game often. If you die, you can take up where you last saved your game.

Be sure to "Turn Around" in each room to look for clues hidden in the different graphics there.

Each "New Game" is different. If you begin a game with a strength of less than 20, START OVER!

The "Mystic Scroll" contains more than one message.

Additional strength can be had by dropping some objects.

NOTICE OF DELAY

Due to the overwhelming demand for *Temple of the Snow Dragon*, the second adventure in the DALARK SERIES will be delayed by at least 30 days if not more. We've all had to devote our time to production of Temple just to keep up with demand. The *Pit of Feshus* will be available as soon as possible. We are sorry for the delay, but quality can not be rushed. Thank you for your patience.

AUG REVIEWS

CALGARY ADAM's FAMILY NEWS

Geared toward novice hackers. AFN is the Calgary AUG's bi-monthly publication. I've only received four issues of my annual subscription (MAY/JUNE 88 was the last one I got), I have been very impressed with the original programs in this newsletter. The group also runs a BBS called NorthernLINK and also operate a mail-order business.

FREQUENCY: Scheduled 6 per year
ANNUAL RATE: \$20 in USA or Canada
EDITORS: Gerry St. Peter & Ken Dornbusch
PUBLISHER: Calgary ADAM's Family
OF PAGES: 14-18
STARTED: December 1987
OF ISSUES: 4
ADDRESS: Calgary ADAM's Family - 6508 34 St. SW -
 Calgary, Alberta, Canada T3E 5M2

COMPUTER SHOPPER

Computer Shopper is a national magazine which has a two to four page section devoted to the ADAM. The primary author is Paul Pappas, the former editor of The Paper Peripheral, an ADAM only newsletter. Faye Deere of ECAUG has recently begun writing articles for CS also. In addition to the 'ADAM FORUM' in CS, just about every computer is covered. Plus, there are a lot of advertisements for low cost disks, printer ribbons, and dot matrix printers in this 600+ page magazine. Also, you can find this one at most news stands and magazine racks.

FREQUENCY: monthly
ANNUAL RATE: \$21.97 in the USA
PUBLISHER: Patch Communications
OF PAGES: 600+ (2 to 5 pages on the ADAM)
STARTED: Jan '80
OF ISSUES: 96
ADDRESS: Computer Shopper - P.O. BOX 51020 -
 Boulder, CO 80321-1020

OMAHA AUC

This is the bi-monthly newsletter of the Omaha AUC. It is in digest format with excerpts from most of the national newsletters along with comments and tips from the editor. It is geared chiefly to local members (\$20 year for the club), but they will accept national members. Norman Castro also offers reduced size copies of hundreds of programs for the ADAM, Sega, Nintendo and Atari systems.

FREQUENCY: bi-monthly
ANNUAL RATE: \$5 in the USA
EDITOR: Norman R. Castro
PUBLISHER: Omaha ADAM User's Club
OF PAGES: 4-8
STARTED: June/July 1984
OF ISSUES: 27
ADDRESS: Omaha ADAM User's Club - 809 W. 33rd Ave. -
 Bellevue, NE 68005

SPRITE CHASER

This is the newsletter of the #1 ADAM User's Group and is published by Jay Forman of the M.W. Ruth Co. Group membership which includes the newsletter is \$18/year; subscriptions are \$22.50. Many great articles appear in this newsletter by Mel Olster on basic programming and by David White, programmer of SpeedyWrite I,II, and Spell.

FREQUENCY: 4 times a year (quarterly)
ANNUAL RATE: \$18 in the USA
EDITORS: Steve George & Greg Daro
PUBLISHER: Jay Forman/MW Ruth Co.
OF PAGES: 12-16
STARTED: January 1985
OF ISSUES: 12
ADDRESS: #1 ADAM User's Group - P.O. Box 3761 -
 Cherry Hill, NJ 08002

U.K.A.S. JOURNAL

The United Kingdom ADAM Subscriber's Journal is a bi-monthly publication. Each issue has a variety of information from programming tips to software reviews. This is one of only two newsletters with which I trade subscriptions, and consequently, I'm not certain what the membership price is in the USA. The rate in England is 15 pounds. The group also operates a BBS with Roger Fillary as the SYSOP.

FREQUENCY: bi-monthly
EDITOR: Keith Marnar
PUBLISHER: U.K.A.S.
OF PAGES: 30-34
ADDRESS: United Kingdom ADAM Subscribers - 33
 Homer Rd. - Croydon, Surrey, England CR0 7SB

IEAUG

This is the monthly newsletter of the Inland Empire AUG. The large local group holds monthly meetings and demonstrates commercial software for the benefit of the consumer. The paper concentrates primarily on BASIC math, JKL Utilities, and CP/M 2.2 and it's many PD application programs.

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We, at NIAD, hope this section of the different AUG's has helped you in contacting other ADAM owners and in the long term, give you more information about the available ADAM products.

SPEEDYWRITE WORKSHOP

SpeedyWrite Tips Installment #1

This article was written by David White in the January 1989 issue of *Sprite Chaser*.

Writing Research Papers with SW2

This time, we'll discuss writing research papers in SW2. SW2 has a couple of features that make writing this kind of paper easier than in SmartWRITER, in addition to being just plain faster than SmartWRITER.

Linking Files

You can link together any number of files into one long document such as a research paper or a book, by using the LINK FILE COMMAND. When the Bytes-Free indicator starts getting low (under 1500), finish the paragraph you are writing, then press CTRL-V followed by a GREATER THAN sign (">"). Next, enter the drive you want to put the next file on (A, B, C, D, or E), a COLON (":"), and the filename. Finally, press RETURN. Save your file, clear the workspace, and you can go on.

If you had any HEADERS or FOOTERS defined in your old file, be sure to redefine them in your new one. These must be defined in each file.

When you want to print your whole document, just load the first file and start printing as you normally would. SW2 will ask you "Link to next file?" when it sees the Link command; press Y to continue or N if you forgot to save (!) your file. If you don't want SW2 to pause before linking like this, use TWO "CTRL-V + greater-than-sign" 's, one after the other, in your Link File command instead of just one. This is called "Fast Link."

Using Footnotes

Another feature of SW2 conducive to report-writing is the FootNote file on the SpeedyWrite tape. To use this file, load it at the beginning of your report file. In your report, you can add a footnote by following these steps:

1. Press CTRL-V : _ ^ ^ (caret), CTRL-V + "%", CTRL-V ^ ^ again. The ^ ^ are superscript symbols, and the "%" tells SW2 to print the citation number.
2. Press SPACE to separate the words before and after the citation, or, if the citation is at the end of a paragraph, press RETURN to the end the paragraph.
3. Press CTRL-V + "=" (equals) followed by CTRL-V "\$". This is the command to define a footnote.
4. Repeat Step 1. This causes SW2 to print the citation number again at the beginning of the footnote. 5. Type your footnote.
6. Press CTRL-V + "\$" followed by RETURN. This ends the footnote definition.

Although the text seems separated into two paragraphs in Edit Mode, it will print the way you intended. You can define a Smart Key to carry out these steps using Keyboard Macros

(Sec. 4-5 of the manual).

Footnotes with More than One File

If you are using the FOOTNOTE program, you'll to do a little more to link files. First of all, you need to have the FootNote file at the beginning of EACH FILE in your document.

Second, any footnotes you defined on the last page of a file must be moved, to the beginning of the next file, or they'll be left out (Just move the part of the definition from the "+\$+" to the "\$" at the end). You can delete all the footnotes, one after the other, into the Delete Buffer (just use CTRL-D the normal way), then press MOVE/COPY when you start your new file to bring back all the definitions. The definitions should be AFTER the FootNote file. You can find out which footnotes are on the last page by looking at a printout or PREVIEWing your document on the screen.

Finally, you need to put a special command at the VERY BEGINNING of your new file that sets the citation number. When you get into your new file, move to the top, turn on Insert Mode, then press CTRL-V followed by a COLON(":"), type in the starting citation number, and press RETURN. The new citation number should be one more than the number of the last footnote in the old file (you can find this out with a printout or with PREVIEW).

Using the RAM disk

A final boom to the research-paper-writer is the RAM-disk, which is always available. SpeedyWrite uses expansion memory (or part of video memory if you have an unexpanded system) to simulate an ultra-fast disk drive. To use the RAM-disk, just use the normal file commands (Save, Load, etc.) But enter "E" for the drive.

You can save linked files on the RAM-disk (be sure to indicate Drive E in the link-file command), then load one file or another faster than tape or disk. This is only really practical if you have 64K or workspace instead of just 24K. If you have a large memory expander, write SpeedyWrite Software (the address is in the front of your manual) for a special RAM-disk program that lets you use all your memory.

Since the RAM-disk is memory, it is eareased whenever you reset ADAM, turn it off, or are victimized by an electrical storm. To copy ALL the files from the RAM-disk to a more permanent location, just use the COPY command. Enter Drive E as the drive to copy from. SW2 will ask you to "Enter Specifier." Enter "*" (asterik) and press RETURN. This filename stands for "all files." Enter the drive you want to copy to, and SW2 will save all your files. If you give all your files a similar name (name files for a paper on 1968 '68.1', '68.2', etc., for example), you can copy from a tape/disk TO your RAM-disk as well. For the above example, you could enter '68.*' as the File Specifier (all files starting with '68>F') and enter "E" as the destination drive.

Because David White is the author of the SpeedyWrite series he is the most qualified individual to write articles. This is not to say that I, Preston Harris, will not write articles in the future, however we will be bringing a series of David White articles in the future. This is simply another example of NIAD bringing you the best!



REVIEWS



HAPPY CLIPS VOL. 1-4 *Reviewed by Jim Notini*

Happy Clips are the newest clip-art packages produced for use on the ADAM. These graphic files were created by a new ADAM firm called Gerlach Family Software. Each volume of clip-arts contain roughly 20 to 25 different picture files which can be used with CLIPPER, PowerPAINT, PrintWORKS (through configuration) and Digital Express' up and coming line of software for use with GoDOS.

The volumes contain pictures of many different walks of life such as: tulip, tank, mosque, robot, challenger, karate, disk drive, hobo, etc. Each picture is very detailed and these volumes are a fine addition to all those graphic lovers software libraries. If you are interested in purchasing one or more of these volumes, or the many other graphic-oriented packages for use with SignSHOP, NewsMAKER and SmartLOGO, contact Gerlach Family Software at the address listed in the FOR-YOUR INFORMATION section. Each volume of graphic files retails for about \$10.00.

Since a picture tells a thousand words, we have included an assortment of the clip-art pictures that are on volumes 1 and 2 so that you may get a better idea of the professional artwork that has been put into each design.

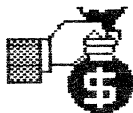
HIGHLY RECOMMENDED



Horse1



Horse2



Money



Skull&Bone



Sailboat



Car



Graduate



XmasTree1

Snack Man & Bouncer *Reviewed by Jim Notini*

Snack Man & Bouncer is a two game pack released by Orbitware. The package is auto-loading and after pulling the computer reset to boot the program, a menu will be displayed which gives you the option to run one of the two programs. Both programs use SmartBASIC's graphic capabilities very nicely and also incorporate the use of sprites for the characters. However, there is not a Hall of Fame option.

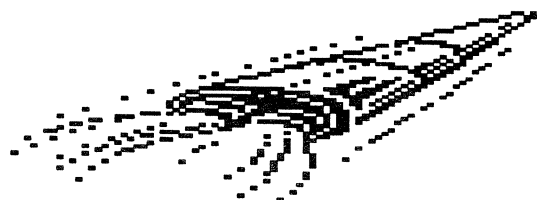
SNACK MAN: Trapped on a sinister planet, you must use your wits and logic to find your impounded space vehicle and escape, but the planet is ruled by an evil creature named Zorkon. In order to get back home, you must use the chomp mobile you 'borrowed' from Zorkon to collect fuel pellets for your spaceship. But watch out, Zorkon will be following you every step of the way in his G.H.O.S.T. ship. If you grab one of the ultra-pellets from one of the corners of the fuel pellet chambers, it gives your chomp mobile the ability to pursue Zorkon with an amazing power that let's you chomp anything that is in your way. You only have this power for a short period of time, but if your quick, you can chomp Zorkon's ship and force him to flee back to his hideout to get another ship.

Snack Man is basically ADAM's version of Pac-Man and by far is the better of the two games. There are four different mazes, each one becoming more and more difficult to traverse. As you try to clear the maze of the pellets, your movement will be determined by the maze walls. However, Zorkon can move freely anywhere in the maze except he can't use the tunnels that allow you to move from one side of the screen to the other. You start the game with 3 lives and control is via joystick #1.

BOUNCER: Your quest continues! You use joystick #1 to maneuver yourself over the panels in order to collect the bombs. You will need to collect all the bombs in order to blow up the food chamber which will allow you to get enough food capsules for the long trip home. Once again, Zorkon is there to try and stop you from collecting all the bombs. Use the joystick to climb up and down the ladders and the fire button to jump over the spaces in the girders. But be careful! Sometimes you may be blown away in a gust of wind. Some of the bombs have a special locking device, and will only release once some of the other bombs are retrieved in a special order. So a little strategy will be needed in order to clear the screen of the bombs.

BOUNCER is very reminiscent of the Jumpman Jr. cartridge that was released by Epyx for the Colecovision back in '83 and between the two games on this package is the weaker of the two. For the average player, the difficulty will be far to great and therefore this game will lose it's value and playability quickly.

But as a whole, the combined package is well worth the \$14.95 retail price from M.W. Ruth Co.. While both games aren't as polished as some of the newer arcade/adventure games coming out for our ADAM, just the novelty of owning a Pac-Man type of game for the ADAM is great. Recommended for the serious gamers out there. M.W. Ruth can be contacted at (609) 667-2526.



***StatCALC I,II,III, BusinessCALC,
DietCALC, General Ledger I and The
Basic Tutor
Mini-Reviews by Dan Fraser***

StatCALC I to III are autoboot, menu driven programs requiring minimum technical background, and are flexible enough to apply to almost limitless situations. The programs are completely conversational, allowing users to tackle realistic problems immediately, without the usual study of program syntax or job control language.

Although a user can employ these programs without any knowledge of BASIC, a familiarity with it allows him or her to customize these programs to their own application (we retain copyright effecting any distribution or subsequent adaptation but will consider licensing). The comprehensive calculation programs compare favorably with a package recently advertised in Computer Shopper at \$295, at about 1/8 of the cost!

Each package is self-contained and includes complete documentation. They provide a comprehensive range of calculational facilities not available in an easy-to-use package. Because all listings can be read via SmartWRITER they can easily be modified to better suit a particular application.

StatCALC I calculates probability calculations involving Factorial, Permutations, Combinations, Bayes Formula and Probability of No Repetition In a Sample.

It also calculates ONE INDEPENDENT VARIABLE STATISTICS including single variable stats of standard deviation, standard error, arithmetic mean, geometric mean, harmonic mean, quadratic mean, the first four moments, coefficient of kurtosis, unbiased second moment and coefficient of variation.

In addition, the moving average, standardized scores, generalized mean and a frequency histogram are calculated.

StatCALC II & III contain DISCRETE DISTRIBUTION FUNCTIONS including binomial distribution and poisson distribution. Continuous distribution functions including Khrgian and Mazin distribution, exponential distribution, normal (Gaussian) distribution, inverse normal distribution, chi-square distribution and F distribution. As well, survey a

format may be chosen via the menu. Together these programs occupy 159K, yet require no more than 16K to run, therefor expanded or non-expanded ADAM's can still use them.

Our third package, **BusinessCALC**, in this series deals with commonly used home/business/accounting calculations. This group of self-booting, menu (paged for instant answers and not media based, thus avoiding constant tape or disk access) driven programs compare favorably with the twice as expensive business calculators available without the need to constantly read reference manuals or memorize complicated formulas.

These include loan repayment to find interest rate payments, present worth, the number of time periods, accumulated interest, remaining balance and the amortization schedule. Also, sinking fund to find interest rate payment, future value and number of time periods.

The programs also include depreciation to find straight-line book value, sum of the year's digits book value and declining balance book value. This grouping is ended off with compound interest to find interest rate, present worth, future value, number of time periods and amount paid as interest. This group of 17 calculators represent a value costing many times more from other vendors. We also include a basic calculator for figuring out addition, subtraction, division and subtraction.

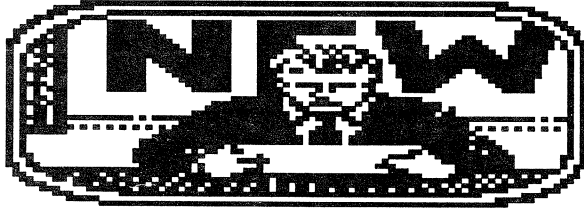
DietCALC, on the other hand, looks at the value of food in terms of joules or calories. How many calories does a particular recipe contain? How many calories in a can of soup? A desert? A diet or standard preparation? Using AdamCALC, the particular values are divided into categories. These are pig, poultry, cheese, egg, veal, salad, beef, cake, light, vegetables, heavy vegetables, fish, bread, lamb, soup, fruit, dessert, pie and cookies. Each grouping contains many commercial and/or common and ethnic preparations covering the whole range of available combinations of food stuff using that particular main ingredient. Diet preparations are distinctly marked off, with their particular value, and the calories by spoon and/or cup are given. An exhaustive package at half the price of books of similar intention, this two disk DietCALC represents excellent value for the money.

Another program we developed is **THE BASIC TUTOR**, an interactive tutor covering the use of basic from nuts to bolts, primarily designed for children and young adults. Because it is comprehensive, using real examples, including animation of each and every Basic Reserved Word, this interactive simulation is also suitable for those who want to learn basic in a light, fun way.



And finally, we added to our list **GENERAL LEDGER I**. This package includes

programs to figure cost of goods sold giving the cost of goods sold and the gross margin on sales, a comparative income statement for 2 or more years calculating the depreciable value of a series of items and the cost of the goods sold, monthly sales reports for a given number of months with the option to draw bar graphs, the present value of depreciation under different depreciation methods, an accounting tool for general ledger transaction analysis producing two reports of a trial balance and a balance sheet, a break even point program that also produces a graph, a



personal list program and an inventory costing method program.

The prices for these programs are:

- 1) StatCALC \$14.95,
- 2) StatCALC II & III \$14.95,
- 3) StatCALC I, II & III \$24.95,
- 4) BusinessCALC & \$14.95,
- 5) DietCALC \$15.95,
- 6) General Ledger I \$15.95 and
- 7) The Basic Tutor \$14.95.

Contact Dan Fraser for more details at: ELECTRIC IMAGE, ATTN: Dan Fraser, Box 890, Palmerston, Ontario, Canada N0G 2P0

A LOOK AT THE ADAMOUSE
From N.O.A.H. Hardware Reviews
by Ronald Collins

Reprinted from the February Vol. 5 #1 Issue of AWAUG

Well, I have just acquired the "pivotal point" in ADAM hardware for the next few years. It's been called a lot of things by a wide range of computer distributors, but it's only now been made available to the ADAM Computer owner. It's called a mouse. Such an un-assuming name isn't it? Don't worry! This one doesn't squeak, crawl under your feet or scare the daylight out of your loved ones when seen! It's just another hardware device... or is it?

The basic idea behind the mouse is simple. After you spend a few minutes trying to draw a respectable looking picture with your joystick or arrow keys, you tend to wish for something better. The mouse was a natural answer to this issue. It is a small palm sized device with a floating ball underneath (sort of a reverse roller controller on a different scale). You can make any type of drawings from curves to circles, squares, etc. Just a slight movement of your hand is all it takes. When the mouse moves in any direction, so does your onscreen cursor!

couldn't be too hard. The advertisements I had seen mentioned that it would take about 20 minutes to install with normal hand tools. I suppose an experienced technician could do the job in about that length of time. He'd even have the ordinary hand tools (tools of his trade) on hand. To do the entire job, I only needed 5 tools..(A) a phillips head screwdriver, (B) a small tipped low wattage soldering pencil, (C) a wire stripping tool, (D) an X-ACTO knife and (E) a small file.

To be honest, it took me more time to get ready to install the mouse than it took to do the installation. I had to remove all the devices I've added over the years such as my modem, PIA2, Auto-Dialer, 256K XRAM Board and both digital data drives. I also had to disconnect my disk drive and keyboard cables. The manual stresses the need to ground yourself from static charges! I suggest that you follow the expert advice they give you to avoid a catastrophic disaster in your memory console. the next step is to take the console apart. It's held together with phillips screws, so the screw driver gets well used! Next, the game board has to be removed, the solder connections identified and the parts location determined. You are given simple instructions on picking the internal location of the mouse interface. You will find it necessary to remove 3 of the small louvers in the case to allow access to the port after installation. The X-ACTO knife served this purpose quite well and the file was used to smooth out the job. This was for MY machine, and I wanted it to look NICE! The wire stripper is used to remove a small section of jacket from the 11 wires you will need to solder to the game board. The soldering pencil should be low wattage to avoid component damage to your memory console. the tip should be small so that it can solder the points without bridging connections.

After all this is finished, you still have to put the memory console back together. All in all, I spent about 2 hours installing the device. The time was well spent because it looks almost as if it WERE factory installed! I even have an extra joystick port if I ever need it! Now, what can I use it for?

Some Coleco programs such as ADAMCalc and SmartWRITER which let you use the joystick to navigate the screen will work easy with the Adamouse. Coleco or ADAM games that don't rely on joystick key input will also work well. If a game uses the pause feature, it will have problems with the mouse. Games like GyruSS and Zaxxon work amazingly well with the mouse! Under SmartBASIC, the mouse has easily programmable capabilities.

My greatest complaint was the lack of current software support. I guess I shouldn't feel too bad though... as a new device, I couldn't really expect too much support. As a step into the "state of the art", I feel that with user support, our ADAM could easily become as effective in such fields as desk top publishing as a Macintosh or IBM. Just think of the possibilities of a patch to PowerPAINT that would provide for the simple mouse device requirements. It would be nice to simply use the mouse to move an arrow, let's say, to the SmartKEY label, tap the button and see the next menu. Drawing would be easier too! Dr. Swift has done a fantastic job of making PowerPAINT user friendly based on the hardware available. Now, with mouse driver, the possibilities

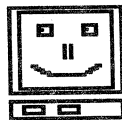
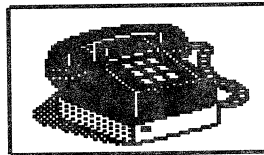
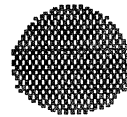
are no less than astounding!

Programming isn't my department, but as an EOS expert, I'm quite sure Dr. Swift could make it work.

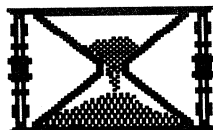
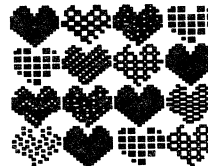
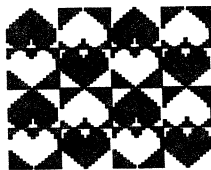
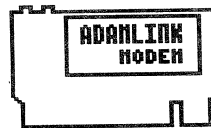
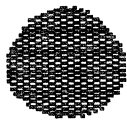
While were on the subject of DEI, what about using a mouse with GoDOS? Those pull down menus and such would certainly benefit! In the meantime, Thomas Electronics mentions an upcoming program called the ADAMOUSE GRAPHIC UTILITY. The manual states that it will have in excess of 4,000, and perhaps as high as 16,000 drawing options! WOW! In conclusion, I leave you with a paragraph from the installation manual Thomas Electronics distributes with the mouse... OVER THE HORIZON Because the ADAMOUSE has opened an entirely new area for the ADAM, we will be constantly endeavoring to develop NEW and SUPERIOR SOFTWARE to take FULL ADVANTAGE of the ADAMOUSE! ADAMOUSE CAD, and ADAMOUSE ARCHITECT, are only the start! What about a WORD PROCESSOR, or SPREADSHEET driven by the ADAMOUSE!

Well, that sure does spark some interest in me! Until next time, keep using your ADAM! It may be old, but it gets better and better everyday!

CLIP ART
from: **PaintMATES04**



WE ♥
ADAM



PRODUCT LIST

EFFECTIVE 4/15/89 & SUBJECT TO CHANGE WITHOUT NOTICE

HARDWARE/ ACCESSORIES

- **SINGLE SIDED ADAM DISK DRIVE \$CALL**
160K Coleco disk drive for the ADAM
- **SINGLE SIDED DISK DRIVE EPROM CHIP**
..... **\$17.95**
Greatly reduces disk formatting time. User must install.
- **DBL SIDED DISK DRIVE EPROM CHIP \$19.95**
For use with older double sided drive conversions, reduces read/ write time of most operations - user must install.
- **DBL SIDED ADAM DISK DRIVE..... \$259.95**
Modified Coleco disk drive provides 320K of storage using 5 1/4 disks. Comes with all software. Call for availability.
- **3 1/2 In 720K ADAM DISK DRIVE....\$289.95**
Modified Coleoc drive provides use of new 3 1/2 inch diskettes and giv 720K of storage. Comes with software and utilities. Call for availability.
- **UPGRADE SINGLE SIDED DRIVE TO:**
- **320K 5 1/4 \$115.00**
- **720K 3 1/2 \$145.00**
Send in your Coleco single sided drive to be upgraded to either a 5 1/4 inch double sided 320K or 3 1/2 inch 720K drive.
Send payment to NIAD, but send drive to:
NIAD DRIVE UPGRADE
1010 Westminster
Garland, TX 75040
- **DIGITAL DATA DRIVE \$29.95**
Replacement or additional second data drive for the ADAM console.
- **64K MEMORY EXPANDER**
- **(WITHOUT 2 MEMORY CHIPS)\$27.95**
- **(WITH MEMORY CHIPS)\$49.95**
Provides an additional 64K of memory for specified programs. Card that is easily installed in the memory console. If purchased without memory chips, all other components are supplied, inc sockets for 2 4464 memory chips.
- **PARALLEL PRINTER INTERFACE.. \$44.95**
Interface card that provides ability to print text/ graphics on any standard dot matrix printer. NEW version has user DIP switches for addressing 8 ADAM ports. Installs in the memory console - requires parallel printer cable below.
- **PARALLEL or SERIAL PRINTER CABLE \$15.95**
Attaches to printer interface card and any printer.
- **SHIELDED PARALLEL CABLE \$24.95**
Same as above, but with shielding to prevent interference.
- **MEGACOPY TAPE MAKER.....\$59.95**
Hardware device with software to create ADAM compatible cassette tapes using the ADAM itself.

- **MONITOR CABLE\$9.95**
Allows attaching of a composite monitor to the ADAM memory console, providing both audio and video.
NOTE: Not available for the ADAM Expansion unit that attaches to the Colecovision game unit.
 - **DISK DRIVE POWER SUPPLY..... \$19.95**
 - **ADAM PRINTER POWER SUPPLY. \$24.95**
"Bare" Power supply from the ADAM printer.
 - **ADAM POWER SUPPLY W/COVER \$49.95**
Standalone power supply that can be used in place of ADAM printer power supply. Metal cover with power on light included.
 - **COMPUSERVE STARTER KIT..... \$29.95**
Includes ID, password, CIS information guide and reference book and \$25 credit towards usage of online time.
 - **MAG'VX 8502 COLOR MONITOR... \$199.95**
Composite color monitor provides superior picture compared to television. Use ADAM monitor cable above to obtain both audio/ video.
 - **MAG'VX 8762 COLOR MONITOR... \$299.95**
Same as above but provides higher resolution and RGB input for compatibility with IBM PC and other RGB color computers. 80 column display in RGB mode.
 - **SURGE PROTECTORS**
 - **3 OUTLET\$ 12.95**
 - **6 OUTLET STRIP\$ 24.95**
 - **POWER CENTER /5 OUTLET \$99.95**
Monitor stand with 5 integrated outlets and switches, including master switch. Full surge and noise protection. Anti static pad included.
 - **NEW ADAM KEYBOARD..... \$19.95**
 - **NEW TAN HAND CONTROLLERS.. \$9.95**
 - **ADAMNET CABLES \$2.95**
Flat, 7 foot cables for either keyboard or disk drive.
 - **NIAD PRODUCT REVIEW BOOK.... \$19.95**
Contains detail reviews of over 100 ADAM products. Save money by knowing products before you buy.
 - **SMARTBASIC PD DESCRIP'S \$5.00**
Manual contains descriptions of all the programs in over 30 volumes of SMARTBASIC PUBLIC DOMAIN. Use to determine which volumes of PD to buy.
- ### *SERVICES*
- **SUPERGAME CONVERSION TO DISK \$4.00**
We will convert your supergames to disk version for faster game play. Send in the title card from your supergame ddp case and \$4 for each game.
 - **SMARTFILER FIX..... \$4.00**
Send in your SMARTFILER ddp/disk and we will upgrade it

PRINTERS

- **PANASONIC 1180i** **\$229.95**
 (with ADAM printer interface & cable) **\$269.95**
 9 by 9 dot matrix printer with 4K buffer and parallel interface.
 Draft speed 192 CPS; Near Letter Quality speed 38 CPS
 Two year limited warranty
- **PANASONIC 1191i** **\$289.95**
 (with ADAM printer interface & cable) **\$329.95**
 Same as 1180i above but draft speed is 240 CPS and NLQ
 speed is 48 CPS.
- **OKIMATE 20 COLOR PRINTER**..... **\$199.95**
 24 pin thermal printer capable of black/ white and full color
 printing. Parallel 'Plug 'N Print' module supplied.
 Includes 8K buffer, special thermal paper required.
 Draft speed 80 CPS, 40 CPS NLQ mode. Special software
 required for ADAM to print in color.
- **RIBBONS**
 - Genuine Panasonic brand for 1080/1091\$9.95
 - Generic brand for Panasonic\$5.95
 - Okimate 20 Color ribbon\$5.95
 - Okimate 20 Black ribbon\$4.95
 - Adam Replacement ribbon\$4.95

TRAINING MAUALS / BOOKS

- **Basic Basic Programs for ADAM** ... **\$8.25**
- **The Coleco ADAM Entertainer** **\$12.95**
- **Hacker's Guide to ADAM Vol 1** **\$11.95**
- **Hacker's Guide to ADAM Vol 2**..... **\$11.95**
- * Disk/ DDP of all the programs in both Volume 1 and 2 of
 Hacker's Guide **\$5.00**
- **Using & Programming ADAM** **\$7.95**
- **ADAM Manuals**..... **\$15.00**
 (Ones originally supplied with the ADAM computer)

ADAM DUST COVERS

- > **3 PIECE for COMPLETE ADAM** **\$18.95**
- > **Disk Drive Dust Cover** **\$ 8.95**
- > **3 PIECE for EXPANSION ADAM** **\$23.95**
- > **PRINT WHEELS** **\$ 6.55**
 SPECIFY FONT STYLE for the ADAM PRINTER
 GOTHIC 12, SCRIPT 12, ELITE 12, EMPHASIS,
 COURIER 72, OR PICA
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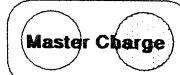
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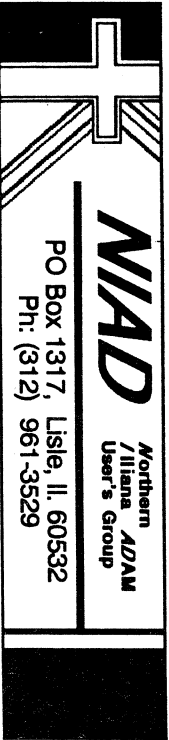
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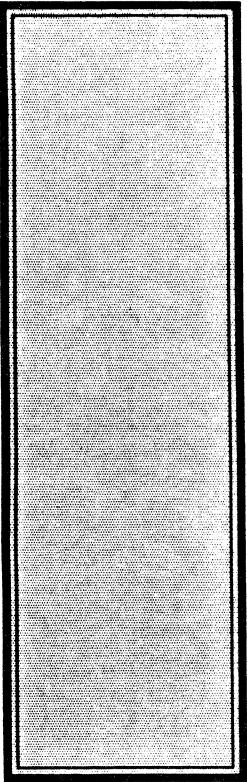


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